



PATENT  
Attorney Docket No. 5889.12  
Express Mail Label No. EV 156971432 US

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

Brian T. BOYD et al.

Appln. No.: 10/022,137

Filed: December 12, 2001

For: DEVICE AND METHOD FOR GENERATING  
AND APPLYING OZONATED WATER

Confirmation No.: 2789

Group Art Unit: 1724

Examiner: Betsey Hoey

**INFORMATION DISCLOSURE STATEMENT**  
**Under 37 C.F.R. §§ 1.97(d), 1.97(e)(2), and 1.98**

Mail Stop DD  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

The Examiner is requested to consider the references noted on the enclosed Form PTO-1449 during examination of the above-identified patent application. These references are submitted for the Examiner's consideration and are submitted pursuant to the duty of disclosure under 37 C.F.R. § 1.56. In submitting these references, no representation is made or implied that the references are or are not material to the examination of the application. The Examiner is encouraged to make his or her own determination of materiality. Copies of the references are provided.

This Information Disclosure Statement is being filed after the period specified in 37 CFR 1.97(c), but before the payment of the issue fee. Accordingly, this Information Disclosure Statement requires the fee specified in 37 CFR 1.17(p) and a statement under 37 CFR 1.97(e)(2):

09/05/2003 BABRAHAI 00000099 041415 10022137

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**Statement Under 37 CFR 1.97(e)(2)**

The undersigned hereby certifies that no item of information contained in the accompanying Information Disclosure Statement was in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the undersigned person, after making reasonable inquiry, no item of information contained in the accompanying Information Disclosure Statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of the Information Disclosure Statement.

A check in the amount of \$180.00 accompanies this Information Disclosure Statement for the fee required by 37 CFR 1.17(p). If this amount is insufficient, the Office is hereby authorized to use our Deposit Account No. 04-1415.

If the Examiner has any questions concerning the relevance of the cited references in this disclosure, please contact the undersigned attorney.

Dated: Sept. 2, 2003

Respectfully submitted,

  
\_\_\_\_\_  
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The PTO did not receive the following  
listed item(s) \_\_\_\_\_



FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE (Modified) PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO. 5889.12	SERIAL NO. 10/022,137
INFORMATION DISCLOSURE STATEMENT BY APPLICANT  (Use several sheets if necessary)		APPLICANT: Brian T. BOYD et al.	
		FILING DATE December 12, 2001	GROUP 1724

## **U.S. PATENT DOCUMENTS**

EXAMINER INITIAL	PATENT NUMBER	ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	4214969	07/29/80	Lawrence	204	255	
	4224129	09/23/80	McIntyre et al.	204	263	
	4316782	02/23/82	Foller et al.	205	626	
	4375395	03/01/83	Foller et al.	205	626	
	4417969	11/29/83	Ezzell et al.	204	252	
	4541989	09/17/85	Foller	422	186.07	
	4596648	06/24/86	Sweeney	204	237	
	4792407	12/20/88	Zeff et al.	210	748	
	4849376	07/18/89	Balzan et al.	438	582	
	4876115	10/24/89	Raistrick	427	115	
	4927800	05/22/90	Nishiki et al.	502	349	
	4950371	08/21/90	McElroy	205	628	
	4992126	02/12/91	Door	156	182	
	5242764	09/07/93	Dhar	429	30	
	5246792	09/21/93	Watanabe	429	33	
	5290406	03/01/94	Sawamoto et al.	205	626	
	5385711	01/31/95	Baker et al.	422	186.07	
	5427658	06/27/95	Allen	205	556	
	5529683	06/25/96	Critz et al.	205	350	
	5578280	11/26/96	Kazi et al.	422	186.07	
	5578388	11/26/96	Faita et al.	429	30	
	5589052	12/31/96	Shimamune et al.	205	349	
	5607562	03/04/97	Shimamune et al.	204	265	
	5686051	11/11/97	Shiota et al.	422	186.14	
	5736016	04/07/98	Allen	204	237	
	5779865	07/14/98	Schulze et al.	204	252	

**FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION**

**OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)**

	Pallav Tatapudi and James M. Fenton, "Simultaneous Synthesis of Ozone and Hydrogen Peroxide in a Proton-Exchange-Membrane Electrochemical Reactor," May 1994, pages 1174-1178
	Pallav Tatapudi and James M. Fenton, "Synthesis of Hydrogen Peroxide in a Proton Exchange Membrane Electrochemical Reactor," April 1993, pages L55-L57
	Pallav Tatapudi and James M. Fenton, "Paired Synthesis of Ozone and Hydrogen Peroxide In An Electrochemical Reactor," pages 275-285
	Pallav Tatapudi and James M. Fenton, "Synthesis of Ozone in a Proton Exchange Membrane Electrochemical Reactor," December 1993, pages 3527-3530
	Tom D. Rogers, G. Duncan Hitchens, Carlos E. Salinas, and Oliver J. Murphy, "Water Purification, Microbiological Control, Sterilization and Organic Waste Decomposition Using an Electrochemical Advanced Ozonation Process," July 13-16, 1996, 10 pages
	G. Duncan Hitchens and Oliver J. Murphy, "Development of Proton-Exchange Membrane Electrochemical Reclaimed Water Post-Treatment System," July 15-18, 1991, pages 131-140
	Masahiro Watanabe, Yasutaka Satah, and Chiyoka Shimura, "Management of the Water Content in Polymer Electrolyte Membranes with Porous Fiber Wicks," November 1993, pages 3190-3193

**EXAMINER****DATE CONSIDERED**

**EXAMINER:** Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



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**CERTIFICATE OF MAILING BY EXPRESS MAIL**

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P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

The undersigned hereby certifies that the enclosed

1. Information Disclosure Statement Under 37 C.F.R. 1.97(d), 1.97(e)(2), and 1.98 (2 pages);
2. Certificate of Mailing by Express Mail (2 page);
3. Form PTO-1449 (2 pages);
4. Copies of thirty-six (34) cited references;
5. Return Postcard,

relating to the above application, were deposited as "Express Mail," Mailing Label No. EV 156971432 US with the United States Postal Service, addressed to the Mail Stop DD, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on this 2<sup>nd</sup> day of September, 2003.

9/02/03

Jon Siekman  
Signature of Mailer  
DORSEY & WHITNEY LLP  
USPTO Customer No. 20686